

REMARKS

I. Formal Matters

Claims 1-22 are all the claims pending in the present Application. Claims 1 and 12 have been rejected. Claims 2-11 and 13-22 have been objected to as being dependent on rejected claims. By this Amendment, Applicant hereby adds new claims 23 and 24. Ample support for the newly added claims can be found throughout the specification.

Applicant thanks the Examiner for accepting the drawings filed on November 7, 2007.

II. Claim Rejections Under 35 U.S.C. § 103

The Examiner has rejected claims 1 and 12 under 35 U.S.C. § 103(a) as supposedly being unpatentable over the allegedly Admitted Prior Art (AAPA) of the instant Application in view of Shattil (U.S. Patent No. 7,076,168). Applicant respectfully disagrees.

With respect to claim 1, the Examiner agrees that the AAPA does not teach, or even suggest, “grouping all subcarrier groups into a plurality of subcarrier groups.” (See Office Action, Page 3). However, the Examiner attempts to cure the admitted deficiency of the AAPA by relying on the Shattil reference. Applicant respectfully asserts that Shattil fails to cure the deficient disclosure of the AAPA.

Specifically, Shattil fails to teach, or even suggest, at least an “antenna transceiver for **performing broadband transmission** ...comprising ... grouping all subcarriers into **a plurality of subcarrier groups** and calibrating a transmission route for each group,” as recited in claim 1.

Instead, the **transmitter** of Shattil is shown in FIG. 2. The transmitter 100 **outputs a composite signal 130** (shown in FIG. 3A), which is comprised of a plurality of carrier signals having predetermined frequency and phase relationships. (See, Col. 13, ll. 22-31). In other words, the transmitter transmits **a composite signal, and not a plurality of subcarrier groups.**

Applicant further notes that the Examiner's reliance on the receiver 200, shown in FIG. 13, as allegedly teaching the above-recited claim limitation is improper. In fact, the receiver has the opposite function from that recited in claim 1. Specifically, even the Examiner agrees that Shattil teaches "to separate the received multicarrier signal." (See Office Action, Page 3). Separating a single received signal has the opposite affect from "grouping all subcarriers into a plurality of subcarrier groups," as required by claim 1. Moreover, the Examiner's own statement shows that the separation is performed with respect to "the received multicarrier signal." As such, this teaching of Shattil is not directed to "performing broadband transmission."

For at least these reasons Applicant respectfully asserts that claim 1 is allowable over the cited art of record.

Additionally, there is simply no teaching in either Shattil, or the AAPA, of "calibrating a transmission route for each group," as required by claim 1. For at least this additional reason Applicant respectfully asserts that claim 1 is allowable over the cited art of record.

With respect to claim 12, Applicant respectfully asserts that claim 12 is allowable for at least the reasons analogous to those recited with respect to claim 1.

III. Allowable Subject Matter

Claims 2-11 and 13-22 have been objected to by the Examiner as being dependent upon an objected claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

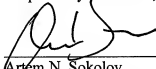
Applicant respectfully requests the Examiner to hold in abeyance the rewriting of these claims until the Examiner has had the opportunity to reconsider the rejected parent claims in light of the arguments presented in support of the Applicant's traverse of the rejection.

IV. Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

This Application is being filed via the USPTO Electronic Filing System (EFS). Applicant herewith petitions the Director of the USPTO to extend the time for reply to the above-identified Office Action for an appropriate length of time if necessary. Any fee due under 37 U.S.C. § 1.17(a) is being paid via the USPTO Electronic Filing System (EFS). The USPTO is also directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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